

# Dynalene LO-170

## High Flash/Nontoxic Low Temperature Fluid Information

**Dynalene® LO-170** heat transfer fluid provides nontoxic, thermally effective and affordable alternative to the expensive silicone oils or aromatic hydrocarbons. **Dynalene LO-170** also exhibits low odor and high flash point characteristics to accommodate most open bath or closed loop heat transfer system when used within its recommended temperature range. When operator safety, environmental impact and price are a minimum requirement for your next heat transfer application or retrofit, consider **Dynalene LO-170**.

For more technical, health and safety information or to request a Material Safety Data Sheet (MSDS), contact our **Dynalene** sales representative at:  
Ph: +1- 610-262-9686 Fax: +1- 610-262-7437  
or e-mail at [info@dynalene.com](mailto:info@dynalene.com).

### Recommended Temperature Ranges:

**Open System:** -40°C (-40°F) to 74°C (165°F)  
**Closed System:** -40°C (-40°F) to 205°C (400°F)

### Open Bath Applications

**Dynalene “LO”** series heat transfer fluids for open bath applications are specifically engineered to offer food grade toxicity ratings and non-noxious odor characteristics without jeopardizing thermal efficiency. **Dynalene “LO”** series fluids, including the products, **Dynalene HF-LO**, **Dynalene LO-170** and **Dynalene LO-230**, consistently provide high-level environmental and workplace friendly performance to maintain the high safety and efficiency expectations of the customer.

### Typical Properties of Dynalene LO-170

Composition: Aliphatic Hydrocarbon Blend

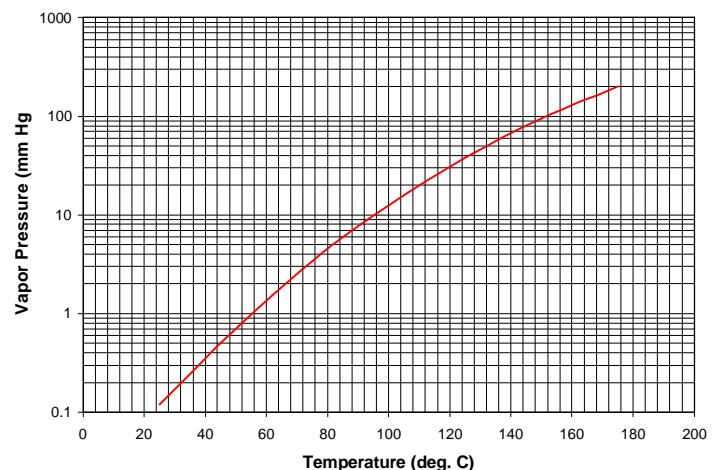
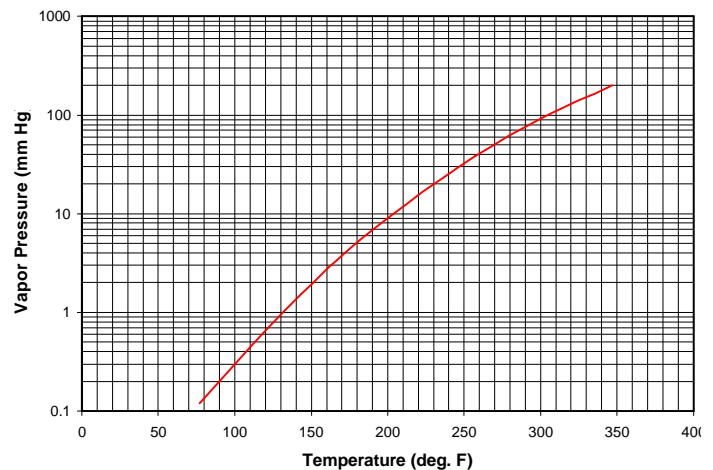
Appearance and Color: Transparent, clear colorless liquid.

Property	SI units	US units
Freeze Point	<-60°C	<-76°F
Boiling Point:	>223°C	>433°F
Flash Point (closed cup):	>77°C	>170°F
Viscosity <sup>1</sup> :		5 cSt
Specific Gravity <sup>2</sup> :		0.79
Specific Heat <sup>2</sup> :	1.88 kJ/kg K	0.45 Btu/(lb °F)
Thermal Conductivity <sup>2</sup> :	0.11245 W/m K	0.065 Btu/(ft hr °F)

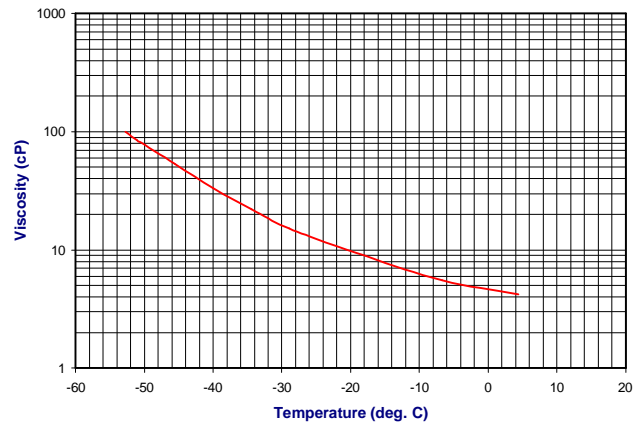
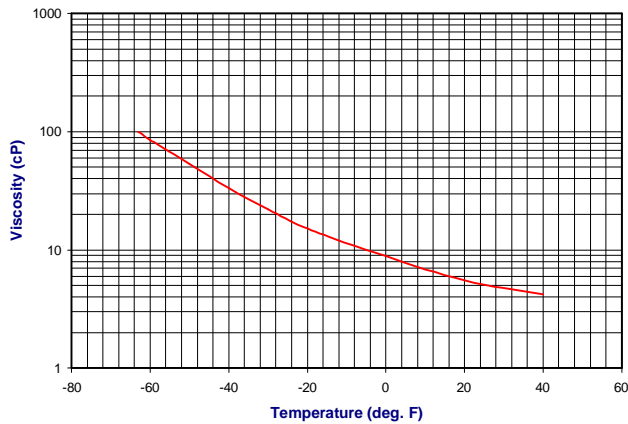
<sup>1</sup>: @ -7°C (20°F)

<sup>2</sup>: @ 20°C (68°F)

### Vapor Pressure of Dynalene LO-170



## Viscosity of Dynalene® LO-170



Dynalene LO-170 heat transfer fluid has an acceptable compatibility rating when installed in systems constructed in accordance with proper engineering practices and within the temperature, pressure, and structural limitations of the following materials:

### Metal Compatibility\*

- Aluminum
- Brass
- Bronze (All)
- Carbon Steel
- Cast Iron
- Copper
- Copper Nickel (All)
- Hasteloy (All)
- Inconel
- Incoloy 825
- Monel
- Nickel
- Stainless Steel (All)
- Stainless Steel Clad
- Tantalum
- Titanium

### Polymer and Gasket Compatibility\*

- Acetal
- Aramid Fiber
- Chemraz (FFKM)
- Epoxy
- Fluorocarbon (FILM)
- Fluoroelastomer
- Glass Fiber
- Gylon Style 3500, 3504, & 3510
- Kalrez
- Kel-F (CTFE)
- Peek
- Polytetrafluor-ethylene
- Teflon (All)
- Teflon Encapsulated Silicone
- Teflon Encapsulated Viton
- Teflon Impregnated Fiberglass
- Viton

For further information, contact a Dynalene sales representative.

Phone: +1- 610 - 262 - 9686

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[www.dynalene.com](http://www.dynalene.com)

\*For a compatibility review on the materials listed above, or the other materials not mentioned in this section, consult the Dynalene® Engineering Department at the number listed above.

\*\*Typical property data in this document are not to be construed as specifications.